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**IN THE CLAIMS:**

1-7. Canceled.

8. (Presently Amended) A system for monitoring a material spraying application system, comprising:

a spraying application system at a first geographic location;

a spraying application system monitoring program module that receives operating data from said spray application system and that is connectable accessible to a communication network;

said monitoring program module formatting operating data into signals accessible via said network; and

a remote access program module at a second geographic location that enables provides access by a geographically remote user computer to acquire said operating data via said network.

9. (Original) The system of claim 8 wherein said network comprises the Internet.

10. (Presently Amended) The system of claim 8 comprising a secure database that contains historical operating parameter information, said secure database being accessible by said remote computer user via said remote access module.

11. (Original) The system of claim 8 wherein said database and operating data are accessible via secure Web pages on the Internet.

12-13. Canceled.

14. (Presently Amended) The system of claim 8 wherein said monitoring remote access module accesses program-compare real time operational parameters and to corresponding parameters stored as initial set-up values to permit geographically remote monitoring of system performance.

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15. (Presently Amended) The system of claim 14 wherein said ~~monitoring remote access module accesses program~~ provides operating and historical data for trend analysis and preventative maintenance.

16. (Presently Amended) The system of claim 8 wherein said spraying application system comprises a powder spraying system and wherein said operating data comprises powder flow rates, powder spray gun electrical powder characteristics, powder spray gun triggering characteristics, powder film thickness characteristics and pressure characteristics.

17. (Previously Presented) The system of claim 8 wherein said operating data comprises a fire detection status signal.

18. (Previously Presented) The system of claim 8 wherein said operating data comprises part identification and conveyer speed data signals.

19. (New) A system for monitoring and servicing a material application system, comprising:

a spraying application system at a first geographic location;

a spraying application system monitoring module that receives real time operating data from said spraying application system and that is accessible to a communication network;

said monitoring module formatting said real time operating data into signals accessible via said network; and

a remote access module at a second geographic location that provides access by a geographically remote user to acquire said real time operating data via said network and analyze performance of said spraying application system.

20. (New) The system of claim 19 comprising a database that contains historical operating parameter information, said database being accessible by said remote user via said remote access module.

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21. (New) The system of claim 19 wherein said remote access module accesses real time operational parameters and corresponding parameters stored as initial set-up values to permit geographically remote monitoring of system performance.

22. (New) The system of claim 19 wherein said communication network comprises the Internet.

23. (New) The system of claim 19 wherein the remote user can access and update a repair history database for said spraying application system.

24. (New) A method for monitoring and servicing a material application system, comprising the steps of:

operating a spraying application system at a first geographic location;

accessing real time operating data from said spraying application system over a communication network;

wherein said real time operating data is accessed from a second geographic location by a geographically remote user to acquire said real time operating data via said network and analyze performance of said spraying application system.

25. (New) The method of claim 24 comprising the step of accessing historical operating data.

26. (New) The method of claim 24 comprising the step of accessing real time operational parameters and corresponding parameters stored as initial set-up values to permit geographically remote monitoring of system performance.

27. (New) The method of claim 24 comprising the step of accessing and updating a repair history database for said spraying application system.

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28. (New) Apparatus for remote monitoring of a powder spray system, comprising:  
a powder spray system operating at a first geographic location;  
a plurality of data devices for detecting a plurality of said powder spray system real time operating parameters and producing a corresponding plurality of real time data signals;  
a controller that receives said data signals and formats them for communication across a communication network;  
a communication network; and  
a remote access computer at a second geographic location connectable to said communication network that provides access by a geographically remote user to acquire said real time operating data via said network and analyze performance of said powder spray system.

29. (New) The apparatus of claim 28 wherein said communication network comprises the Internet.

30. (New) The apparatus of claim 28 wherein said operating parameters are selected to include at least one of the following: fan speed, film thickness, flow rate, air quality, conveyor speed, electrical ground quality, electrical pulse rate and sequence, powder quality, part identification.

31. (New) The apparatus of claim 28 wherein said data devices comprise a fire detector.

32. (New) A system for monitoring and servicing a material application system, comprising:  
a material application system at a first geographic location;  
a material application system monitoring module that receives real time operating data from said material application system and that is accessible to a communication network;  
said monitoring module formatting said real time operating data into signals accessible via said network; and

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a remote access module at a second geographic location that provides access by a geographically remote user to acquire said real time operating data via said network and analyze performance of said material application system.

33. (New) The system of claim 32 comprising a database that contains historical operating parameter information, said database being accessible by said remote user via said remote access module.

34. (New) The system of claim 32 wherein said remote access module accesses real time operational parameters and corresponding parameters stored as initial set-up values to permit geographically remote monitoring of system performance.

35. (New) The system of claim 32 wherein said communication network comprises the Internet.

36. (New) The system of claim 32 wherein the remote user can access and update a repair history database for said material application system.

37. (New) A system for monitoring and servicing a material application system, comprising:

a material application system at a first geographic location;

a material application system monitoring module that receives real time operating data from said material application system and that is accessible to a communication network;

said monitoring module formatting said real time operating data into signals accessible via said network; and

a remote access module at a second geographic location that provides access by a geographically remote user to acquire said real time operating data via said network and analyze performance of said material application system